

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 79-124

NPDES NO. CA0006050

WASTE DISCHARGE REQUIREMENTS FOR:

ATLANTIC RICHFIELD COMPANY PETROLEUM
PRODUCTS STORAGE TERMINAL
RICHMOND, CONTRA COSTA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board), finds that:

1. Atlantic Richfield Company, hereinafter called the discharger, submitted a report of waste discharge (NPDES Application for permit to discharge, Short Form D), dated June 5, 1979, for its petroleum products storage terminal at 1306 Canal Blvd., Richmond, California.
2. The terminal receives and stores petroleum fuels and lubricants, packages some of these products, and ships them by rail and truck. The terminal discharges wastes into Harbor Channel of Richmond Harbor, an arm of San Francisco Bay and a water of the United States. The waste consists of drainage and washdown from petroleum product storage and loading areas. It is treated in an oil separator and discharged into Harbor Channel at an average rate of 1,000 gallons per day.
3. On November 1, 1974, the Board adopted Order No. 74-124 prescribing waste discharge requirements for Atlantic Richfield Company, Richmond terminal.
4. EPA issued memoranda on July 26, 1976, and February 24, 1977, providing guidance on effluent and treatment standards applicable to all petroleum marketing terminals.
5. A Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) was adopted by the Board on April 8, 1975. This Basin Plan contains water quality objectives for the San Francisco Bay and for Harbor Channel of Richmond Harbor.
6. The beneficial uses of Harbor Channel and contiguous waters are:
 - a. Recreation (contact & non-contact)
 - b. Fish migration and habitat
 - c. Habitat for wildlife and estuarine organisms including some rare and endangered species
 - d. Industrial water supply
 - e. Esthetic enjoyment
 - f. Navigation
 - g. Commercial and sport fishing.

7. This project involves the continued operation of a privately-owned facility with negligible or no expansion of use beyond that previously existing. Consequently, this project will not have a significant effect on the environment based upon the exemption provided in Section 15101, Title 14, California Water Code.
8. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
9. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that Atlantic Richfield Company in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder and the provisions of the Federal Water Pollution Control Act, and regulations and guidelines adopted thereunder shall comply with the following:

A. Discharge Prohibitions

1. The discharge of cleaning chemicals to waters of the State is prohibited.
2. Any product spills shall be promptly cleaned up and prevented from mixing with precipitation runoff which discharges into waters of the State.

B. Effluent Limitations

1. Effluent discharged shall not exceed the following limits:

<u>Constituent</u>	<u>Units</u>	<u>Daily Average</u>
Oil & Grease not to exceed	(1) mg/l	30
	lb/day	.250
	kg/day	.113

(1) Daily average concentration limit for oil and grease shall be deemed exceeded if the analyses of any two representative grab samples taken at least six (6) hours apart each individually exceed 30 mg/l.

2. The pH of the discharge shall not exceed 8.5 nor be less than 6.5.

3. In any representative set of samples, the waste as discharged shall meet the following limit of quality:

Toxicity: The survival of a test organism acceptable to this Regional Board in 96-hour bioassays of the effluent as discharged shall achieve a median of 90% survival for three consecutive samples and a 90 percentile value of not less than 70% survival for ten (10) consecutive samples.

C. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in waters of the state at any place.
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam;
 - b. Alteration of turbidity or apparent color beyond present natural background levels;
 - c. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
 - d. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.
2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State in any place within one foot of the water surface:
 - a. Dissolved oxygen 5.0 mg/l minimum - Annual median not less than 80% saturation. When natural factors cause lesser concentration than specified above, then discharge shall not cause further reduction in the concentration of dissolved oxygen.
 - b. Dissolved sulfide 0.1 mg/l maximum.
 - c. pH Variation from natural ambient pH by more than 0.2 pH units.

D. Provisions

1. This permit may be modified, or, alternatively, revoked and reissued, to comply with any applicable effluent limitation issued pursuant to the order the United States District Court for the District of Columbia issued on June 8, 1976, in Natural Resources Defense Council, Inc. et. al. v. Russell E. Train, 8 ERC 2120 (D.D.C. 1976), if the effluent limitation so issued:
 - (a) is different in conditions or more stringent than any effluent limitation in the permit; or

- (b) controls any pollutant not limited in the permit.
2. This Board's Order No. 74-124 is hereby rescinded.
 3. The discharger shall immediately comply with all terms of this Order.
 4. The discharger shall comply with the attached Self-Monitoring and Reporting Program as ordered by the Executive Officer.
 5. The discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements", dated April 1977, except A.5, B.1, B.2, B.5.
 6. This Order expires on October 16, 1984. The discharger must file a Report of Waste Discharge in accordance with Title 23, Chapter 3, Subchapter 9, of the California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.
 7. This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Water Pollution Control Act or amendments thereto, and shall become effective ten (10) days after date of its adoption provided the Regional Administrator, Environmental Protection Agency has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on **October 16, 1979.**

FRED H. DIERKER
Executive Officer

Attachments:

Standard Provisions & Reporting
Requirements - April 1977

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

Atlantic Richfield Company

Petroleum Products Storage Terminal

Richmond, Contra Costa County

NPDES NO. CA 0006050

ORDER NO. 79-124

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are: (1) to document compliance with waste discharge requirements and prohibitions established by this Regional Board, (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge, (3) to develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance, pretreatment and toxicity standards, and other standards, and (4) to prepare water and wastewater quality inventories.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the latest edition of Standard Methods for the Examination of Water and Wastewater prepared and published jointly by the American Public Health Association, American Water Works Association, and Water Pollution Control Federation, or other methods approved and specified by the Executive Officer of this Regional Board. (See APPENDIX E.)

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health or a laboratory approved by the Executive Officer. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

C. DEFINITION OF TERMS

1. A grab sample is defined as an individual sample collected in fewer than 15 minutes.

2. Standard Observations

a. Receiving Water

(1) Floating and suspended material of waste origin (to include oil, grease, algae, and other macroscopic particulate matter): presence or absence, source, and size of affected area.

- (2) Discoloration and turbidity: description of color, source, and size of affected area.
- (3) Odor: presence or absence, characterization, source, and distance of travel.
- (4) Evidence of beneficial water use: presence of water-associated wildlife, fishermen, and other recreational activities in the vicinity of the sampling stations.

b. Waste Effluent

- (1) Floating and suspended material of waste origin (to include oil, grease, algae, and other macroscopic particulate matter): presence or absence.
- (2) Odor: presence or absence, characterization, source, distance of travel.

c. Periphery of Waste Treatment and/or Disposal Facilities

- (1) Odor: presence or absence, characterization, source, and distance of travel.

D. SCHEDULE OF SAMPLING, ANALYSES, AND OBSERVATIONS

The discharger is required to perform observations, sampling, and analyses according to the schedule in Table I with the conditions that grab samples of effluent shall be collected during periods of maximum peak flows, unless otherwise stipulated.

E. RECORDS TO BE MAINTAINED

- 1. Written reports, calibration and maintenance records, and other records, shall be maintained at the waste treatment plant and shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board or Regional Administrator of the U. S. Environmental Protection Agency, Region IX. Such records shall show the following for each sample:
 - a. Identity of sampling and observation stations by number.
 - b. Date and time of sampling and/or observations.
 - c. Date and time that analyses are started and completed, and name of personnel performing the analyses.
 - d. Complete procedure used, including method of preserving sample and identity and volumes of reagents used. A reference to specific section of Standard Methods is satisfactory.
 - e. Calculations of results.
 - f. Results of analyses and/or observations.

2. A tabulation shall be maintained showing the total estimated waste flow or volume for each discharge.
3. A tabulation relative to bypassing and accidental waste spills shall be maintained showing information items listed in Sections F-1 and F-2 for each occurrence.

F. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Spill Reports

A report shall be made of any spill of oil or other hazardous material. Spills shall be reported to this Regional Board and the U. S. Coast Guard by telephone immediately after occurrence. A written report shall be filed with the Regional Board within five (5) days and shall contain information relative to:

- a. nature of waste or pollutant,
- b. quantity involved,
- c. cause of spilling,
- d. estimated size of affected area,
- e. nature of effects (i.e., fishkill, discoloration of receiving water, etc.),
- f. corrective measures that have been taken, or planned, and a schedule of these activities, and
- g. persons notified.

2. Bypass Reports

Bypass reporting shall be an integral part of regular monitoring program reporting, and a report on bypassing of untreated waste or bypassing of any treatment unit(s) shall be made which will include cause, time, and date, duration and estimated volume of waste bypassed, method used in estimating volume, and persons notified, for planned and/or unplanned bypass.

The discharger shall file a written technical report at least 15 days prior to advertising for bid on any construction project which would cause or aggravate the discharge of waste in violation of requirements; said report shall describe the nature, costs, and scheduling of all action necessary to preclude such discharge. In no case should any discharge of sewage-bearing wastes be permitted without at least primary treatment and chlorination.

In the event the discharger is unable to comply with the conditions of the waste discharge requirements and prohibitions due to:

- (a) maintenance work, power failures, or breakdown of waste treatment equipment, or

- (b) accidents caused by human error or negligence, or
- (c) other causes such as acts of nature,

the discharger shall notify the Regional Board Offices by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the noncompliance and shall indicate what steps were taken to prevent the problem from recurring.

In addition, if the noncompliance caused by items (a), (b), or (c) above is with respect to any of the effluent limits, the waste discharger shall promptly accelerate his monitoring program to analyze the discharge at least once every day for those constituents which have been violated. Such daily analyses shall continue until such time as the effluent limits have been attained, or until such time as the Executive Officer determines to be appropriate. The results of such monitoring shall be included in the regular Self-Monitoring Report.

3. Self-Monitoring Reports

Written reports shall be filed regularly for each calendar quarter (unless specified otherwise) by the fifteenth day of the following month. The reports shall include:

a. Letter of Transmittal:

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include a discussion of requirement violations found during the past month and actions taken or planned for correcting violations, such as plant operation modifications and/or plant facilities expansion. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. Monitoring reports and the letter transmitting reports shall be signed by a principal executive officer at the level of vice-president or his duly authorized representative if such representative is responsible for the overall operation of the facility from which the discharge originates.

The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

b. Compliance Evaluation Summary

Each report shall be accompanied by a compliance evaluation summary sheet prepared by the discharger. The report format will be prepared using the example shown in APPENDIX A. The discharger will prepare the format using those parameters and requirement limits for receiving water and effluent constituents specified in his permit.

c. Map or Aerial Photograph

A map or aerial photograph shall accompany the report showing sampling and observation station locations.

d. Results of Analyses and Observations

Tabulations of the results from each required analysis specified in Section G by date, time, type of sample, and station, signed by the laboratory director. The report format will be prepared using the examples shown in APPENDIX B.

e. Effluent Data Summary

Summary tabulation of the data to include for flow rate and each constituent total number of analyses, maximum, minimum, and average values for each period.

f. List of Approved Analyses

- (1) Listing of analyses for which the discharger is approved by the State Department of Health.
- (2) List of analyses performed for the discharger by another approved laboratory (and copies of reports signed by the laboratory director of that laboratory shall also be submitted as part of the report).

4. Annual Reporting

By January 30 of each year, the discharger shall submit an annual report to the Regional Board covering the previous calendar year. The report shall contain a tabular summary of the monitoring data obtained during the previous year. In addition, the report shall contain a comprehensive discussion of the compliance record and the corrective actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements. The report format will be prepared by the discharger using the examples shown in APPENDIX D and should be maintained and submitted with each regular self-monitoring report.

G. MONITORING SPECIFICATIONS

1. Description of Sampling Stations

a. Effluent

<u>Station</u>	<u>Description</u>
E-1	At any point in the outfall from the skimming pond.

b. Receiving Waters

<u>Station</u>	<u>Description</u>
C-1	At a point in Harbor Channel, located within twenty-five (25) feet from the point of discharge.

c. Land Observations

<u>Station</u>	<u>Description</u>
P-1 thru P-'n'	Located along the waterfront of the terminal facilities, at equidistant intervals, not to exceed fifty (50) feet. (A sketch showing the locations of these stations will accompany each report.)

2. Schedule of Sampling and Analysis

- a. The schedule of sampling and analysis shall be that given as Table I.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 79-124.
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Attachment:
Table I

by ROGER B. JAMES
Acting Executive Officer

Effective Date November 9, 1979

TABLE I
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES

SAMPLING STATIONS	E-1		C-1	P-1 thru P-n	PST				
TYPE OF SAMPLES	G	O	O	O	G				
Flow Rate gals/day	M (2)								
Oil & Grease mg/l	M (1)								
pH	M								
Toxicity % Survival in Undiluted waste as discharge					E				
Standard Observation		M	M	M					

LEGEND FOR TABLE

Type of Sample

G = grab

O = observation

Sampling Frequency

M = monthly

E = If bleed-off water from more than one storage tank is discharged simultaneously, the grab samples from each tank may be composited in proportion to their estimated discharge rate. The results may be reported as applying to each discharge.

Type of Station

E = waste effluent

C = receiving water

P = perimeter of terminal site

PST = petroleum storage tank

NOTES

(1) The "daily average" limitation for oil and grease stated in the permits shall be deemed to have been exceeded if either:

- a. The arithmetic average of the analyses of all representative samples taken during a calendar month exceeds 30 mg/l; or
- b. The analyses of any two representative grab samples taken at least six (6) hours apart during any thirty (30) days period each individually exceed 30 mg/l.

Each sample taken by either the discharger or the State or EPA shall be presumed to be representative. However, due to the variability of the sampling and analysis of oil and grease discharged from petroleum marketing terminals, the discharger may in good faith declare a maximum of 10% of the samples taken by it during a calendar year, but not more than one sample taken during any calendar month, to be non-representative. No sample may be so excluded if it is the only sample taken by the

NOTES (continued)

discharger during a calendar month. Such a declaration must be included in writing with the next Monitoring Report submitted in accordance with the permit, and must include the results of the analysis of the excluded sample and a written explanation for the exclusion of that sample. If any sample is so excluded, the "daily average" concentration shall be the arithmetic average of the analyses of the remaining non-excluded samples.

- (2) Estimate volume of discharge in gallons per day.